

## Instructions for use

## AltoStar<sup>®</sup> Whole Blood Pretreatment Buffer 1.5

05/2022 EN

**AltoStar**<sup>®</sup>

# **AltoStar®**

# Whole Blood Pretreatment Buffer 1.5

For research use only!

(RUO)



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## 1. Application

The AltoStar<sup>®</sup> Whole Blood Pretreatment Buffer 1.5 is a reagent suitable for the stabilization and liquefaction of whole blood samples for the subsequent isolation and purification of nucleic acids.

For research use only (RUO)! Not for use in diagnostic procedures.

## 2. Kit content

The AltoStar<sup>®</sup> Whole Blood Pretreatment Buffer 1.5 contains the following components:

#### Table 1: Kit components

Component	Number of tubes	Volume per tube [ml]
WBPB*	48	4.9

\* Whole Blood Pretreatment Buffer

The AltoStar<sup>®</sup> Whole Blood Pretreatment Buffer 1.5 contains enough reagents for the pretreatment of 576 whole blood samples.

Upon receipt and before first use, check the product and its components for:

- Integrity
- · Completeness with respect to number, type and filling
- Correct labeling
- Expiration date
- Clarity and absence of particles

If one or more tubes have been compromised during shipment or are missing, contact altona Diagnostics technical support for assistance (see chapter 8. Technical support).

## 3. Storage and handling

The WBPB (Whole Blood Pretreatment Buffer) is a ready-to-use solution.

#### 3.1 Storage

The WBPB is shipped at room temperature and should be stored at +15  $^\circ\text{C}$  to +30  $^\circ\text{C}$  upon receipt.

## 3.2 Handling

The WBPB is stable after initial opening for 14 days, when closed after each use and stored as follows: tubes should be closed with the original cap after use and stored at +15  $^{\circ}$ C to +30  $^{\circ}$ C.



## 4. Product description

 Table
 2: Kit component description

Kit component	Description
WBPB*	The WBPB contains surfactants and salts to stabilize and liquefy whole blood samples for the subsequent isolation and purification of nucleic acids.

\* Whole Blood Pretreatment Buffer

#### 4.1 Samples

#### 4.1.1 Sample types

The following sample types can be used with the AltoStar<sup>®</sup> Whole Blood Pretreatment Buffer 1.5:

- EDTA whole blood
- Citrate whole blood

		e Blood Pretreatment Buffer
	H314	Causes severe skin burns and eye damage.
LE Z	H318	Causes serious eye damage.
	H412	Harmful to aquatic life with long lasting effects.
GHS05	P260	Do not breathe mist, vapours, spray.
01000	P264	Wash hands thoroughly after handling.
	P273	Avoid release to the environment.
	P280	Wear protective gloves, eye protection, face protection.
	P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Danger!	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER, a doctor.
	Contains:	Sodium hydroxide (CAS 50-01-1) 1–2.5 %

## 5. Safety information

#### NOTE

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For more information, consult the safety data sheet (SDS).

# 6. Using the AltoStar<sup>®</sup> Whole Blood Pretreatment Buffer 1.5

The following chapters describe the use of the AltoStar<sup>®</sup> Whole Blood Pretreatment Buffer 1.5 with the AltoStar<sup>®</sup> Automation System AM16 (Hamilton; in the following summarized as AltoStar<sup>®</sup> AM16, Order No. AM16).

#### 6.1 Sample volume

The AltoStar<sup>®</sup> AM16 allows purification of 500  $\mu$ l of pretreated sample. Additional pretreated sample volume has to be provided to account for the dead volume of the sample tube used. When using the sample tubes purchased from altona Diagnostics (see table 4), provide at least 700  $\mu$ l pretreated sample volume in total.

#### NOTE

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The sample volume is not checked by the system prior to processing. Samples with insufficient volume will not be processed and error flagged during the sample transfer step.

## 6.2 Sample tubes

Sample tubes suitable for use on the AltoStar<sup>®</sup> AM16 can be purchased from altona Diagnostics (see table 4). Other sample tubes can be tested for applicability by the user. For details, refer to the instructions for use of the AltoStar<sup>®</sup> Purification Kit 1.5 (Order No. PK15-06).

## 6.3 Sample barcodes

For automated sample identification by the AltoStar<sup>®</sup> AM16 all sample tubes must be labeled with a suitable barcode. For details, refer to the instructions for use of the AltoStar<sup>®</sup> Purification Kit 1.5.

#### 6.4 Equipment and reagents to be supplied by the user

Material	Description	Order No.
AltoStar <sup>⊚</sup> AM16 Workflow	Product bundle containing the AltoStar® Automation System AM16, the AltoStar® Connect software and IT hardware	AM16
AltoStar <sup>®</sup> Purification Kit 1.5	Nucleic acid isolation and purification chemistry for use with the AltoStar® Automation System AM16	PK15-06

#### Table 4: Additional laboratory material

Material	Description	Order No.
Sample tubes	e.g. 7 ml tube with cap, 82 x 13mm	VK000010
Sample tube caps	e.g. ribbed plug for sample tubes	VK000011

#### 6.5 General material and devices

- Vortex mixer
- Powder-free gloves (disposable)
- Pipettes (adjustable, for sample preparation)
- Pipette tips with filters (disposable, for sample preparation)

#### 6.6 Procedure

#### 6.6.1 Whole blood pretreatment procedure

- Transfer the required volume of whole blood free of solids and high-viscosity constituents from the primary tube to a suitable barcode-labeled sample tube and add the same volume of WBPB to the sample to achieve a volumetric ratio of 1:1 (e.g. 350 µl of whole blood and 350 µl of WBPB).
- Immediately and thoroughly mix by vortexing for 10 seconds. Insufficient mixing may render the sample unsuitable for processing due to increased viscosity or clotting.

- **3.** Avoid formation of bubbles. If bubbles have formed during mixing they can be removed after 2–3 minutes by carefully tapping the sample tube. Do not centrifuge the sample.
- **4.** Start the purification run on the AltoStar<sup>®</sup> AM16 for the pretreated whole blood samples within 60 minutes from the beginning of the pretreatment.

#### NOTE

The sample volume is not checked by the system prior to processing. Samples with insufficient volume will not be processed and error flagged during the sample transfer step.

## 7. Disposal

Dispose of hazardous and biological waste in compliance with local and national regulations. Leftover product components and waste should not be allowed to enter sewage, water courses or the soil.

## 8. Technical support

For customer support, contact altona Diagnostics technical support:

e-mail: support@altona-diagnostics.com phone: +49-(0)40-5480676-0

#### 9. Trademarks and disclaimers

AltoStar® (altona Diagnostics).

Registered names, trademarks, etc. used in this document, even if not specifically marked as such, are not to be considered unprotected by law.

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## 10. Symbols

Symbol	Explanation
RUO	Research use only
LOT	Batch code
CONT	Content
REF	Catalogue number
Ĩ	Consult instructions for use
\∑	Contains sufficient for "n" tests/reactions (rxns)
X	Temperature limit
	Use-by date
<b></b>	Manufacturer
	Version
i	Note
UFI	Unique formula identifier

## 11. Revision history

 Table
 5: Revision history

ldentifier	Date of issue [month/year]	Modifications
INS-WBPB1500- EN-S01	05/2022	Initial release

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